Task	Level of Cognitive Demand	Explanation of Categorization	Features
A	Doing mathematics	There is no pathway suggested by the task. The focus is on looking for the underlying mathematical structure.	 Requires an explanation Uses manipulatives Involves multiple steps Uses a diagram Is symbolic/abstract Is "textbook-like"
В	Procedures with connections	The task focuses attention on the procedure for finding percents, but in a meaningful context.	Has "real-world" contextInvolves multiple stepsIs "textbook-like"
С	Doing mathematics	There is no predictable pathway suggested by the task and it requires complex thinking.	 Requires an explanation Has "real-world" context Involves multiple steps Uses a calculator Is "textbook-like"
D	Procedures without connections	The task requires the use of a well-established procedure for finding the sales price. There is no connection to meaning.	 Requires an explanation Has "real-world" context Involves multiple steps Is "textbook-like"
Е	Procedures with connections	The task provides a procedure for taking a fraction of a fraction but connects the procedure to meaning.	 Uses manipulatives Involves multiple steps Uses a diagram Is symbolic/abstract
F	Procedures without connections	The task provides a procedure for finding the perimeter but requires no connection to meaning.	 Uses manipulatives Uses a diagram Is symbolic/abstract
G	Procedures with connections	The task provides a procedure for finding the average that focuses on the underlying meaning of the average.	 Requires an explanation Involves multiple steps Uses a diagram Is symbolic/abstract
Н	Memorization	The task requires the recall of previously learned information. No understanding is required.	Is "textbook-like"

FIGURE 1.4. Cognitive demands and features of the eight simple tasks.